

In the claims:

Please amend claims 30, 32, 34, 38, 40, 45, 52-55, and 57-58 without prejudice, as follows:

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30. (Amended) A method of producing an addressable complex carbohydrate library, the method comprising the steps of:

- (a) providing a single solid support having a plurality of addressable locations; and
- (b) synthesizing a plurality of complex carbohydrate structures, each of said plurality of complex carbohydrate structures being attached to at least one of said plurality of addressable locations, thereby producing the addressable complex carbohydrate library.

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32. (Amended) The method of claim 31, wherein said linker includes at least two covalently linked monomers.

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34. (Amended) The method of claim 33, wherein the linker is cleavable under conditions that do not affect a structure of each of said plurality of complex carbohydrate structures.

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38. (Amended) The method of claim 30, wherein said single solid support is a flat platform.

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40. (Amended) The method of claim 30, wherein said solid support is a chip and further wherein adjacent locations of said plurality of addressable locations are spaced no more than 2.25 mm from one another.

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45. (Amended) The method of claim 30, wherein at least one of said plurality of complex carbohydrate structures includes at least two covalently linked saccharide units of a single species.

52. (Amended) The method of claim 30, wherein said plurality of complex carbohydrate structures represent non-naturally occurring complex carbohydrates.

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cont

53. (Amended) The method of claim 30, wherein said plurality of complex carbohydrate structures represent naturally occurring complex carbohydrates.

54. (Amended) The method of claim 53, wherein said naturally occurring complex carbohydrates are associated with a condition selected from the group consisting of tumorogenesis, metastasis, pregnancy, vascular disease, heart disease, neurodegenerative disease, autoimmune disease, infertility, allergies, embryogenesis, apoptosis, neurodegenerative disorders and organ transplantation.

55. (Amended) The method of claim 53, wherein said naturally occurring complex carbohydrates are present in human cells.

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57. (Amended) The method of claim 30, wherein said plurality of complex carbohydrate structures represent domains of at least one naturally occurring complex carbohydrate.

58. (Amended) The method of claim 57, wherein said at least one naturally occurring complex carbohydrate is present in human cells.

Please add New claim 64 as follows:

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64. (New) The method of claim 30, wherein step (b) is effected by on-support, parallel enzymatic synthesis of said plurality of complex carbohydrate structures.